

What is claimed is:

1. A flame-retardant polyamide composition comprising:

(A) 20 to 80% by weight of an aromatic polyamide, composed of recurring units of dicarboxylic acid component unit and diamine component unit, the former composed of 80 to 100% by mol of a terephthalic acid component unit and 0 to 70% by mol of an aromatic dicarboxylic acid component unit other than terephthalic acid and/or 0 to 70% by mol of a C₄ to C₂₀ aliphatic dicarboxylic acid component unit and the latter composed of an aliphatic diamine component unit and/or an alicyclic diamine component unit; and having an MFR of 40 to 300g/10 minutes, determined at a load of 2,160g and at a temperature of 10°C plus melting point, and melting point exceeding 290°C;

(B) 5 to 50% by weight of an inorganic reinforcing agent,

(C) 5 to 40% by weight of a bromine-based flame retardant, containing at least one type of polybrominated styrene obtained by polymerization of brominated styrene, and

(D) 0.1 to 10% by weight of an antimony-containing compound and/or zinc-containing compound oxide, the components (A) to (D) totaling 100% by weight,

wherein, said polyamide composition has flame retardancy equivalent to V-0 determined in accordance with the UL-94 specification, and said bromine-based flame retardant has a number-average particle size of less than 0.90 μ m in said polyamide composition, when it is pelletized.

2. The flame-retardant polyamide composition according to Claim 1, wherein the polyamide extracted with concentrated sulfuric acid from said flame-retardant polyamide composition has a viscosity of 60 to 110ml/g.

3. The flame-retardant polyamide composition according to Claim 1,

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wherein said bromine-based flame retardant contained in the formed article of said flame-retardant polyamide composition has number-average particle size of less than 0.90 μ m.

4. The flame-retardant polyamide composition according to Claim 1, wherein said polybrominated styrene has an MFR of 40 to 400g/10 minutes, determined at a load of 1,200g and at a temperature of 270°C using an orifice having a diameter of 2.095mm, and/or said brominated styrene has a weight-average molecular weight of 2,000 to 500,000.

5. A flame-retardant pelletized polyamide resin composition comprising:

(A) 20 to 80% by weight of an aromatic polyamide, composed of recurring units of dicarboxylic acid component unit and diamine component unit, the former composed of 30 to 100% by mol of a terephthalic acid component unit and 0 to 70% by mol of an aromatic dicarboxylic acid component unit other than terephthalic acid and/or 0 to 70% by mol of a C₄ - C₂₀ aliphatic dicarboxylic acid component unit and the latter composed of an aliphatic diamine component unit and/or an alicyclic diamine component unit; and having an MFR of 40 to 800g/10 minutes, determined at a load of 2,160g and at a temperature of 10°C plus melting point, and melting point exceeding 290°C;

(B) 5 to 50% by weight of an inorganic reinforcing agent,

(C) 5 to 40% by weight of a bromine-based flame retardant, containing at least one type of polybrominated styrene obtained by polymerization of brominated styrene, and

(D) 0.1 to 10% by weight of an antimony-containing compound and/or zinc-containing compound oxide, the components (A) to (D) totaling 100% by weight.

wherein, the polyamide extracted with concentrated sulfuric acid from said pelletized polyamide resin composition has a viscosity of 60 to 110ml/g.

6. The flame retardant pelletized polyamide resin composition according to Claim 5, wherein said polybrominated styrene has an MFR of 40 to 400g/10 minutes, determined at a load of 1,200g and at a temperature of 270°C using an orifice having a diameter of 2.095mm, and/or said brominated styrene has a weight-average molecular weight of 2,000 to 500,000.

7. A formed article of flame-retardant polyamide comprising:

(A) 20 to 80% by weight of an aromatic polyamide, composed of recurring units of dicarboxylic acid component unit and diamine component unit, the former composed of 30 to 100% by mol of a terephthalic acid component unit and 0 to 70% by mol of an aromatic dicarboxylic acid component unit other than terephthalic acid and/or 0 to 70% by mol of a C₄ - C₂₀ aliphatic dicarboxylic acid component unit and the latter composed of an aliphatic diamine component unit and/or an alicyclic diamine component unit,

(B) 5 to 50% by weight of an inorganic reinforcing agent,

(C) 5 to 40% by weight of a bromine-based flame retardant, containing at least one type of polybrominated styrene obtained by polymerization of brominated styrene, and

(D) 0.1 to 10% by weight of an antimony-containing compound and/or zinc-containing compound oxide, the components (A) to (D) totaling 100% by weight,

wherein, said bromine-based flame retardant contained in said formed article has a number-average particle size of less than 0.90 μ m.

8. The formed article of flame-retardant polyamide according to Claim

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7, wherein said polybrominated styrene has an MFR of 40 to 400g/10 minutes, determined at a load of 1,200g and at a temperature of 270°C using an orifice having a diameter of 2.095mm, and/or said brominated styrene has a weight-average molecular weight of 2,000 to 500,000.

9. The formed article of flame-retardant polyamide according to Claim 7, wherein said polyamide extracted with concentrated sulfuric acid from said formed article has a viscosity of 60 to 110ml/g.

10. The formed article of flame-retardant polyamide according to Claim 7, having flame retardancy equivalent to V-0, determined in accordance with the UL94 specification.

11. A flame-retardant electric or electronic device member, made of the flame-retardant polyamide composition according to one of Claims 1 to 4, or the flame-retardant pelletized polyamide resin composition according to Claim 5.

12. The flame-retardant electric or electronic device member according to Claim 11, wherein said member is a connector.

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